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1 [Short papers 2: Test input generation for red-black trees using abstraction](#)



Willem Visser, Corina S. Păsăreanu, Radek Pelánek

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available: pdf(82.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the problem of test input generation for code that manipulates complex data structures. Test inputs are sequences of method calls from the data structure interface. We describe test input generation techniques that rely on state matching to avoid generation of redundant tests. *Exhaustive techniques* use explicit state model checking to explore *all* the possible test sequences up to predefined input sizes. *Lossy techniques* rely on abstraction mappings to compute and ...

Keywords: abstraction, coverage, model checking, red-black trees, testing object oriented programs

2 [A comment on the presentation and testing of CALGO codes and a remark on algorithm 639: To integrate some infinite oscillating tails](#)



Tim Hopkins

September 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 3

Publisher: ACM Press

Full text available: pdf(135.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We report on a number of coding problems that occur frequently in published CALGO software and are still appearing in new algorithm submissions. Using Algorithm 639 as an extended example, we describe how these types of faults may be almost entirely eliminated using available commercial compilers and software tools. We consider the levels of testing required to instil confidence that code performs reliably. Finally, we look at how the source code may be re-engineered, and thus made more maintain ...

Keywords: Debugging, Fortran, software tools, testing

3 [Cryptographic verification of test coverage claims](#)



Prem Devanbu, Stuart G. Stubblebine

November 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering**

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Coverability Analysis Using Symbolic Model Checking

1998-03-01

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Result # 2 Relevance: ★★★★★

Using Simulation Prior to Coverability Analysis

2002-10-03

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